

# JONATHAN SPARKS

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## Education

- New York University – Interactive Telecommunications Program (ITP)** | New York, NY May 2015  
Master of Professional Studies
- Northeastern University** | Boston, MA May 2005  
Bachelor of Science in Music, Minor: Business Administration

## Experience

- Team-A-Toys** | New York, NY Jan. 2016 – May 2016  
\_ideation, industrial design, electrical engineering, programming, sound design, fabrication
- MKG** | New York, NY Sep. 2015  
\_technical support/ troubleshooting - US Open/Chase Charging Wall and Photobooth
- Brooklyn Research** | New York, NY Aug. 2015  
\_fabrication and electronic assembly - US Open/Chase Charging Wall
- Yorgo Alexopoulos Multimedia** | New York, NY Jan. 2015  
\_fabrication and electronic assembly
- Peter Coffin Studio** | New York, NY Jun. 2014  
\_LED programming, fabrication, and electronics consulting - *Living* exhibition:
- New York University** | New York, NY Feb. 2008 - Present  
\_Library Assistant: acquisition and cataloging of new print and electronic materials

## Skills

### Software

- \_design: Photoshop, Illustrator, Rhino, Eagle
- \_multimedia: After Effects, Premiere, MadMapper, Ableton, Pro Tools

### Programming languages/environments

- \_Arduino, Processing, Android, Python, HTML, CSS, JavaScript, jQuery, Max/MSP/Jitter

### Physical Computing

- \_input: analog sensors, microphones, and cameras
- \_output: sound, addressable RGB LEDs, linear actuators, dc/stepper/servo motors
- \_microcontroller/dev boards: Arduino, Raspberry Pi
- \_wireless communication: gsm, wi-fi, Zigbee, Bluetooth
- \_mechanisms

### Fabrication

- \_wood/metal/plastic fabrication & finishing
- \_experienced in full range of power and hand tools
- \_digital fabrication: laser cutting and 3D printing

### Electronics

- \_analog circuitry / pcb design
- \_digital / logic integrated circuits
- \_soft circuits / wearables

### Multi-Media

- \_projection mapping
- \_music composition, performance, sound design

## Achievements

- Margaret Guthman Musical Instrument Competition** | Nomis - People's Choice: Best Instrument / Best Performance
- NYU Prototyping Fund awardee** | Fine Motor Tech
- Cool Hunting 25** | Honoree in design
- Brooklyn 1.0** | Guest Speaker
- Paseo** | Wearables workshop and After Party Performance
- DJ Jazzy Jeff's Playlist Retreat** | Nomis Demonstration
- EdLab Art Commission** | Keepsake
- Featured Press:** \_online: Creator's Project, Popular Science, DesignBoom, WNYC,  
\_print: Protein Magazine, Inch Magazine  
\_television: TODAY show - Future of Music, Discovery Channel: Daily Planet